See also: PluginTOTP

Two-Factor Authentication (2FA) is a security mechanism that requires users to provide two different authentication factors to verify their identity. This significantly enhances security by adding an extra layer of protection beyond just a password.

Starting with Tiki 21, 2FA was introduced to strengthen the security of user accounts during authentication, helping to prevent SIM Swap Scam.

Tiki uses pragmarx/google2fa, a PHP implementation of two widely used algorithms for generating one-time passwords (OTPs) in 2FA systems:

TOTP (Time-based One-time Password) - open standard documented in RFC 6238.

TOTP is similar to HOTP but incorporates a time factor.

• Algorithm: Based on HOTP

• Input: Secret key + Current timestamp

• Output: 6-8 digit numeric code

• Validity: Typically 30 seconds

• Use Case: Real-time applications requiring immediate validation.

HOTP (HMAC-based One-time Password). - RFC 4226

HOTP generates a one-time password using a secret key and a counter.

• Algorithm: Based on HMAC-SHA1

• Input: Secret key + Counter value

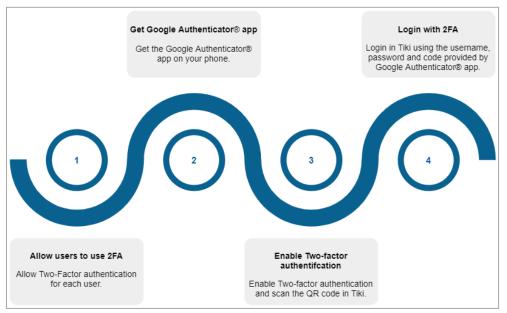
• Output: 6-8 digit numeric code

• Validity: Until used (not time-dependent)

• Use Case: Ideal for systems where time synchronization isn't critical or possible

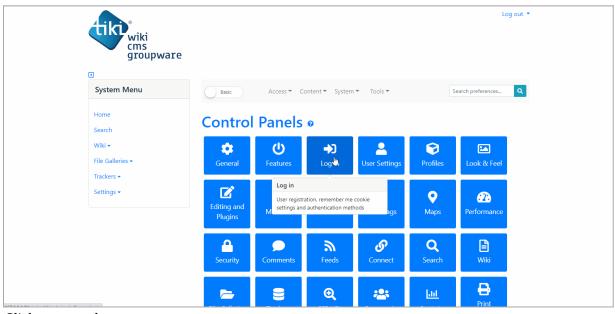
Tiki primarily uses TOTP, which offers several advantages:

- 1. Enhanced Security: Protects against unauthorized access even if passwords are compromised.
- 2. Flexibility: TOTP adds an additional layer of security by being time-based
- 3. Cross-Platform Compatibility: Supported by a wide range of devices and applications.
- 4. User-Friendly: Easy to implement and use with mobile apps like Google Authenticator.
- 5. Compliance: Helps meet regulatory requirements for secure authentication.
- 6. And you can even use another Tiki instance via PluginTOTP.



Click to expand

## Steps



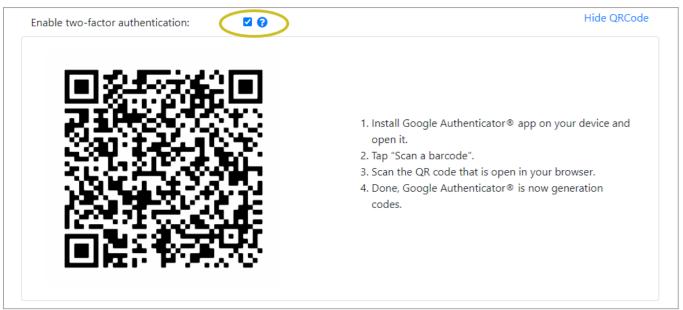
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**Step 2:** Next, install Google AuthenticatorÃfÆ'ââ,¬ÅiÃf'Ã,® App on your mobile phone. See how to install it here.

**Step 3:** Check the ÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬Ãf…ââ,¬Å"Enable two-factor authenticationÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬ option in the ÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬Ãf…ââ,¬ÅiÃ,¬Ãf…ââ,¬Å"User PreferencesÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬ page, the ÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬Ãf…ââ,¬Å"Account InformationÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬ tab and click on ÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬Ãf…ââ,¬Å"Save changesÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬ button. Note that the current password is required to make

changes.

At this step, you need to connect Tiki and the Google Authenticator  $\tilde{A}f\mathcal{E}'\tilde{A}$ ,  $\tilde{A}f\hat{a}\in \tilde{A}, \tilde{A}\otimes \tilde{A}f\hat{a}\in \tilde{A}, \tilde{A}\otimes \tilde{A}f\hat{a}\in \tilde{A}, \tilde{A}\otimes \tilde{A}f\hat{a}\in \tilde{A}, \tilde{A}\otimes \tilde{A}f\hat{a}\otimes \tilde{A}, \tilde{A}\otimes \tilde{A}f\hat{a}\otimes \tilde{A}\otimes \tilde{A}, \tilde{A}\otimes \tilde{A}f\hat{a}\otimes \tilde{A}\otimes \tilde{A$ 



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**Step 4:** Finally, when authenticating on page "Log InÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬ (e.g. http://www.example.com/tiki-login\_scr.php?twoFactorForm), take the code generated by Google AuthenticatorÃfÆ'ââ,¬ÅiÃf'Ã,® App and enter it in the field  $\tilde{A}f$ Æ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬Ãf…ââ,¬Å"Two-factor Authenticator CodeÃfÆ'Ã,¢Ãf¢Ã¢â,¬ÅiÃ,¬.

Username:		
I		
Password:		
I forgot my passwor	d .	
Two-factor Authenti	cator Code:	
	Log in	

By adhering to standardized algorithms like TOTP and HOTP, 2FA solutions become both secure and flexible. These methods make user authentication robust and effective.

## Related links

• Original commit: http://sourceforge.net/p/tikiwiki/code/70793

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Page	aliases
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• 2FA